

Serial No. 10/060,737

PATENT  
Docket No. 58027-011100REMARKS

The Applicants thank the Examiner for the courtesy of granting an interview with Charles Berman and Sunil Bharitkar on January 25, 2005.

Independent claims 1, 27, and 32 have been rejected by the Examiner under 35 USC 102(e) as being unpatentable over Young et al. (US. 6,162,046). Furthermore, according to the Examiner, claims 23-25 have been rejected as they recited no structural limitation since the "acoustic wave", "wavefront", and "pulsating characteristic" are not considered elements of the apparatus, but process limitations relating to the intended use of the apparatus.

Accordingly, independent claims 1, 27, and 32 have been amended, (i) by replacing the preamble of said independent claims to claim a system for mixing and combusting chemicals, and (ii) to include the limitations of claims 2, 23 and 24. Furthermore, claims 2, 23-25, 29-31, and 33-35 are cancelled.

As discussed with the Examiner during the interview, the support for the newly included limitations in these independent claims can be found in the specification at paragraphs [0043] and [0044].

Furthermore, nowhere does Young teach, suggest, or disclose (i) an initiator providing energy to combust a mixture of evaporated fluid and an oxidizer to send a pressure wave through an outlet; (ii) the combustion of the evaporated fluid generating an acoustic wave, where the acoustic wave is used to draw the oxidizer from the first inlet into the chamber; and (iii) a subsequent combustion being provided by a wavefront of the acoustic wave, after the device achieves operational temperature and operational acoustic frequency.

Accordingly, the Applicants submit that the rejections of the above-referenced claims be withdrawn.

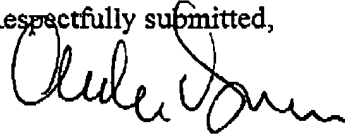
Thus, in view of the above, it is submitted that this application is now in good order for allowance, and such early action is respectfully solicited. Should matters remain which the

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Examiner believes could be resolved in a telephone interview, the Examiner is requested to telephone the Applicants' undersigned attorney.

Respectfully submitted,



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